48

# NAD SERVICE MANUAL

## MONITOR SERIES

# 3100

## INTEGRATED AMPLIFIER

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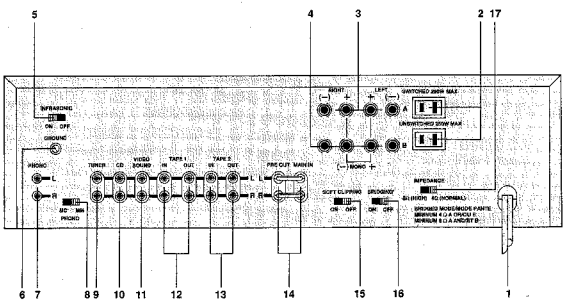
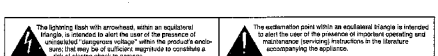
## REAR PANEL

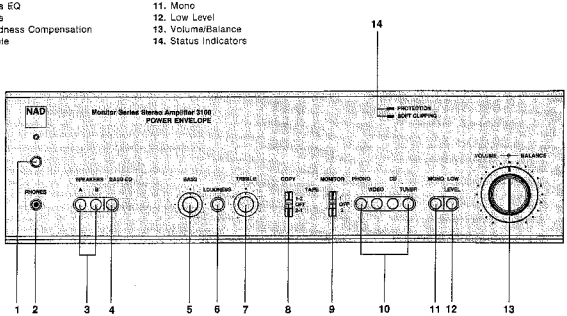
1. AC Line Cord
2. AC Outlets (not in all models)
3. Speakers A
4. Speakers B
5. Infrasonic Filter
6. Ground
7. Phono Input
8. MM/MC Selector
9. Tuner Input
10. CD Input
11. Video Sound Input
12. Tape 1 Input/Output
13. Tape 2 Input/Output
14. Preamp Out/Normal In
15. Soft Clipping
16. Bridging
17. Speaker Impedance





The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## FRONT PANEL

1. Power
2. Phones
3. Speakers A/B
4. Bass EQ
5. Bass
6. Loudness Compensation
7. Treble
8. Tape Copy
9. Tape Monitor
10. Input Selector (Phono, CD, Video, Tuner)
11. Mono
12. Low Level
13. Volume/Balance
14. Status Indicators

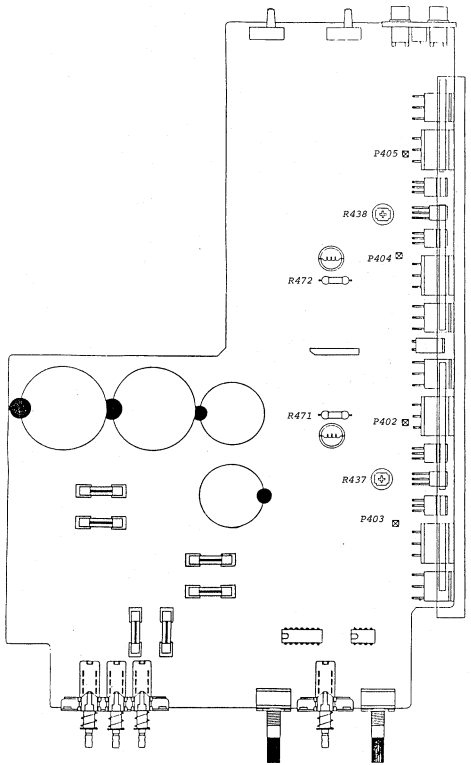


NAD 3100 INTEGRATED AMPLIFIERS
SPECIFICATIONS

Note: Specifications are measured in accordancae with EIA Standard RS-490 (IHF A-202). Measurements referred to 8 ohms are taken with the Speaker Impedance selector set to 8 ohm (High). Measurements for 4 and 2 ohm are taken with Impedance selector at 4 ohm (Normal).

| | | |
|---|---|---|
| POWER AMPLIFIER SECTION | | |
| Stereo Mode | | |
| CONTINUOUS AVERAGE POWER OUTPUT INTO 8 OHMS (Min. RMS power per channel, 20Hz-20kHz, both channels driven, with no more than the rated distortion.) | | 50 W(17 dBW) |
| Rated Distortion (THD 20 Hz-20 kHz) | | 0.03% |
| Clipping Power (maximum continuous power per channel) | 8 ohms | 70 W |
| | 4 ohms | |
| IHF Dynamic Headroom at 8 ohms | | +6 dB |
| IHF Dynamic Power (maximum short-term power per channel) | 8 ohms | 200 W(23 dBW) |
| | 4 ohms | 250 W(24 dBW) |
| | 2 ohms | 330 W(25 dBW) |
| Damping Factor (ref 8 ohms, 50 Hz) | | 100 |
| Slew Factor | | >50 |
| Slew Rate | | >38V/usec |
| THD (Total Harmonic Distortion, 20 Hz-20kHz, from 250 mW to rate output) | | <0.03% |
| SMPTE I.M.(Intermodulation distortion, 60Hz & 7kHz,4:1, from 250mW to rated output) | | <0.03% |
| IHF I.M. (CCIF IM Distortion 19 + 20kHz at rated output) | | <0.03% |
| Input Impedance | | R=10 kohm/C=600pf |
| Input sensitivity for 1 Watt/50 Watts out | | 120 mV/850 mV |
| Voltage Gain | | x23(27 dB) |
| Frequency Response Lab Input | | 4 Hz-100 kHz +0, -3 dB |
| Signal/Noise Ratio, A-weighted | | 100 dB ref. 1W<br>117 dB ref. 50W |
| Bridged (Monophonic) Mode | | |
| CONTINUOUS AVERAGE POWER OUTPUT INTO 8 OHMS (Min. RMS power per channel, 20Hz-20kHz, one channel driven, with no more than the rated distortion.) | | 100 W(20 dBW) |
| IHF Dynamic Headroom at 8 ohms | | +7 dB |
| IHF Dynamic Power (maximum short-term power per channel) | 8 ohms | 500 W(27 dBW) |
| | 4 ohms | 660 W(28 dBW) |
| PREAMPLIFIER SECTION | | |
| PHONO INPUT | | |
| Input Impedance | MM: | R =47 kohm, C =100 pF |
| | MC: | R =100 ohm, C =100 pF |
| Input Sensitivity (1 kHz) | MM: | 0.35 mV |
| | MC: | 0.025 mV |
| Input Overload at 20 Hz/1kHz/20kHz | MM: | 20mV/180mV/1.5V |
| | MC: | 1.4mV/13mV/100mV |
| Signal/Noise Ratio,IHF A-weighted, with cartridge connected | MM: | 76 dB ref. 5 mV |
| | MC: | 75 dB ref. 0.5mV |
| THD(20Hz-20kHz) AND IM distortion at +30 dB level | | <0.04% |
| RIAA Accuracy | | ±0.5 dB |
| LINE LEVEL INPUTS (CD, VIDEO, TAPE, TUNER) | | |
| Input Impedance | | R=50 kohm, C=500 pF |
| Input Sensitivity ref. 1W/rated output | | 20 mV/150 mV |
| Maximum Input Signal | | 10V |
| Signal/Noise Ratio, A-weighted | | 94 dB ref. 1W<br>111 dB ref. 50W out |
| Frequency Response, 20 Hz-20 kHz | | 0.5 dB |
| OUTPUTS | | |
| Preamp Output Impedance | | 600 ohm |
| Maximum Ouput Level | | 10V |
| Tape Output Impedance | | 100 (buffered) |
| Tape Output Infrasonic Filter | | -3 dB at 12 Hz<br>12 dB/octave |
| CONTROLS | | |
| Treble | | ±9 dB at 10kHz |
| Bass | | ±10 dB at 50 Hz |
| Bass Equalization | | +3 dB at 55 Hz<br>+6 dB at 36 Hz |
| Infrasonic Filter (switchable) | | -3 dB at 12 HZ<br>12 dB/octave |
| PHYSICAL SPECIFICATIONS | | |
| Width x Height x Depth | | 43.5 x 10.8 x 38.1 cm.<br>(17.1 x 4.25 x 15 in.) |
| Net Weight | | 10.5 kg (23.2 lbs) |
| Shipping Weight | | 11.6 kg (25.5 lbs) |
| Power Consumption | | 50/60 Hz at 110,120, 220 or 240 VAC/220 VA. |

MAIN AMPLIFIER ADJUSTMENT POINT






MAIN AMPLIFIER ADJUSTMENT

IMPORTANT NOTES:

1) Before adjusting, remove input signal and load, and set Speaker impedance switch to 8 ohms (reset to 4 ohms when finished).
2) These adjustments are always necessary after repair to main amplifier.
3) After repair, it is recommended to use current limiter (70-100W lightbulb) in mains line, for initial turn-on.

A. CENTER VOLTAGE CHECK

1. Connect DMM between Ground and R-471 (L channel)(R-472, R channel)(amplifier output).
2. Turn on, and read voltage. Specification 0V ± 100mVDC.

B. IDLE CURRENT ADJUSTMENT

1. Connect DMM across P-402(+) and P-403(-), and adjust R-437 for reading of 15mV ± 2.5mVDC.
2. Repeat, using P-404(+) and P-405(-), adjust R-438.

C. FINAL ADJUSTMENT

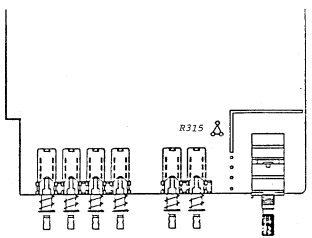
1. Leave power on minimum 5 minutes.
2. Repeat center voltage check and idle current adjustments.

PREAMPLIFIER ADJUSTMENT

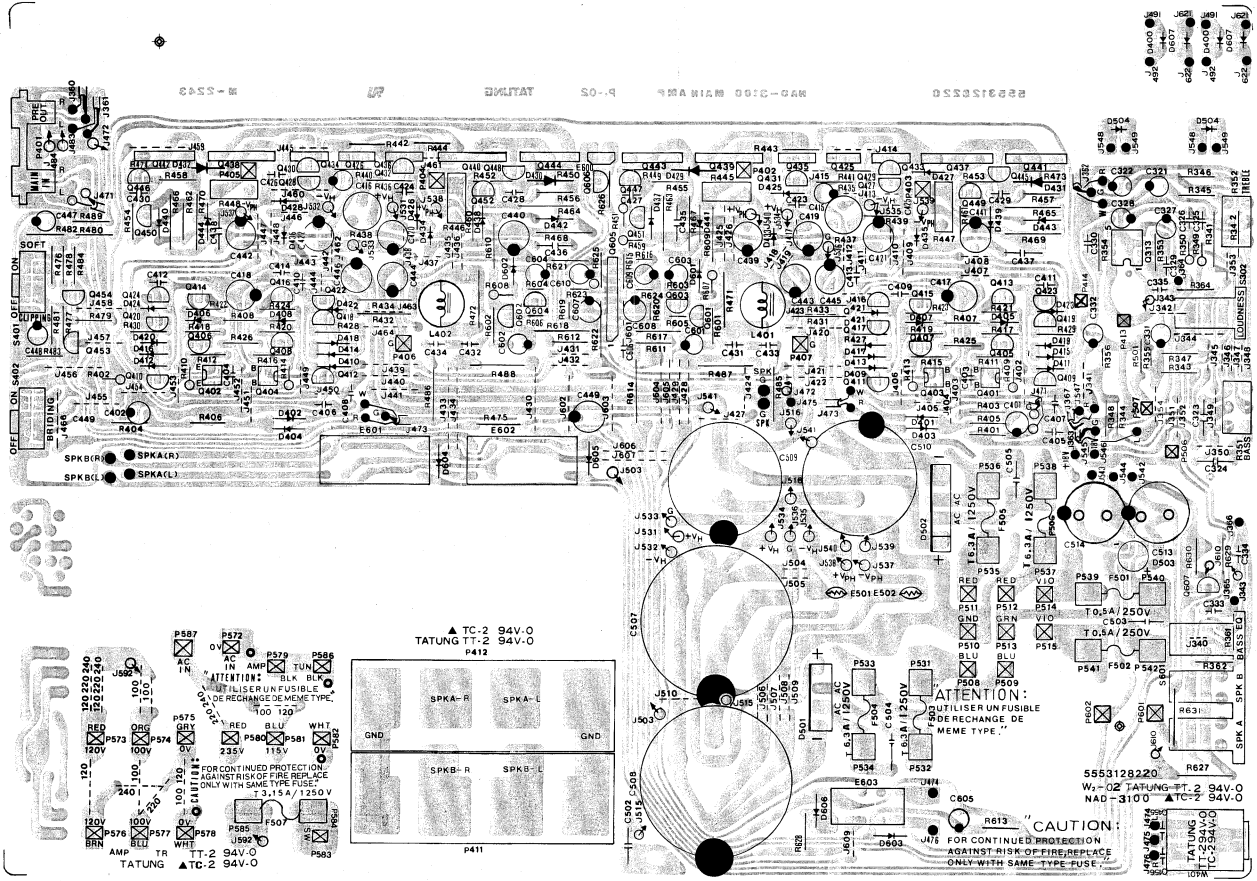
A. CHANNEL BALANCE

1. Feed 1kHz, 100mV to CD input; connect AC VTVM's to preamp output.
2. Set volume to maximum, balance to center, low level off.
3. Adjust R-315 so that both channels have same output level ± 0.25dB.

PREAMPLIFIER ADJUSTMENT POINT

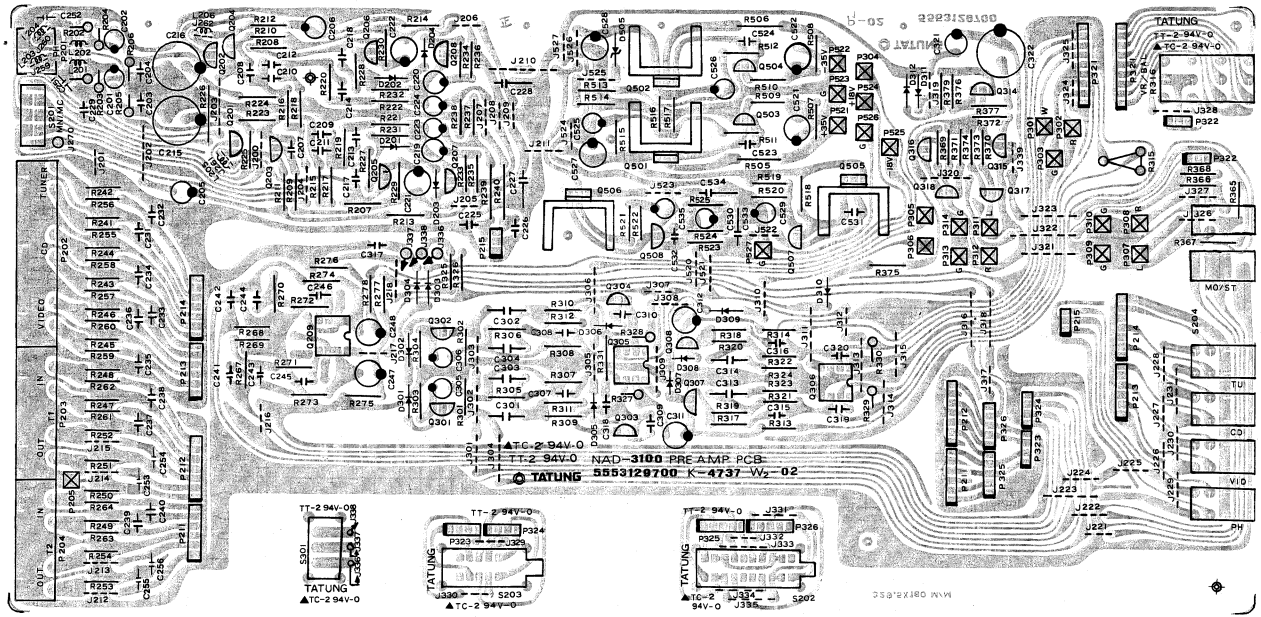


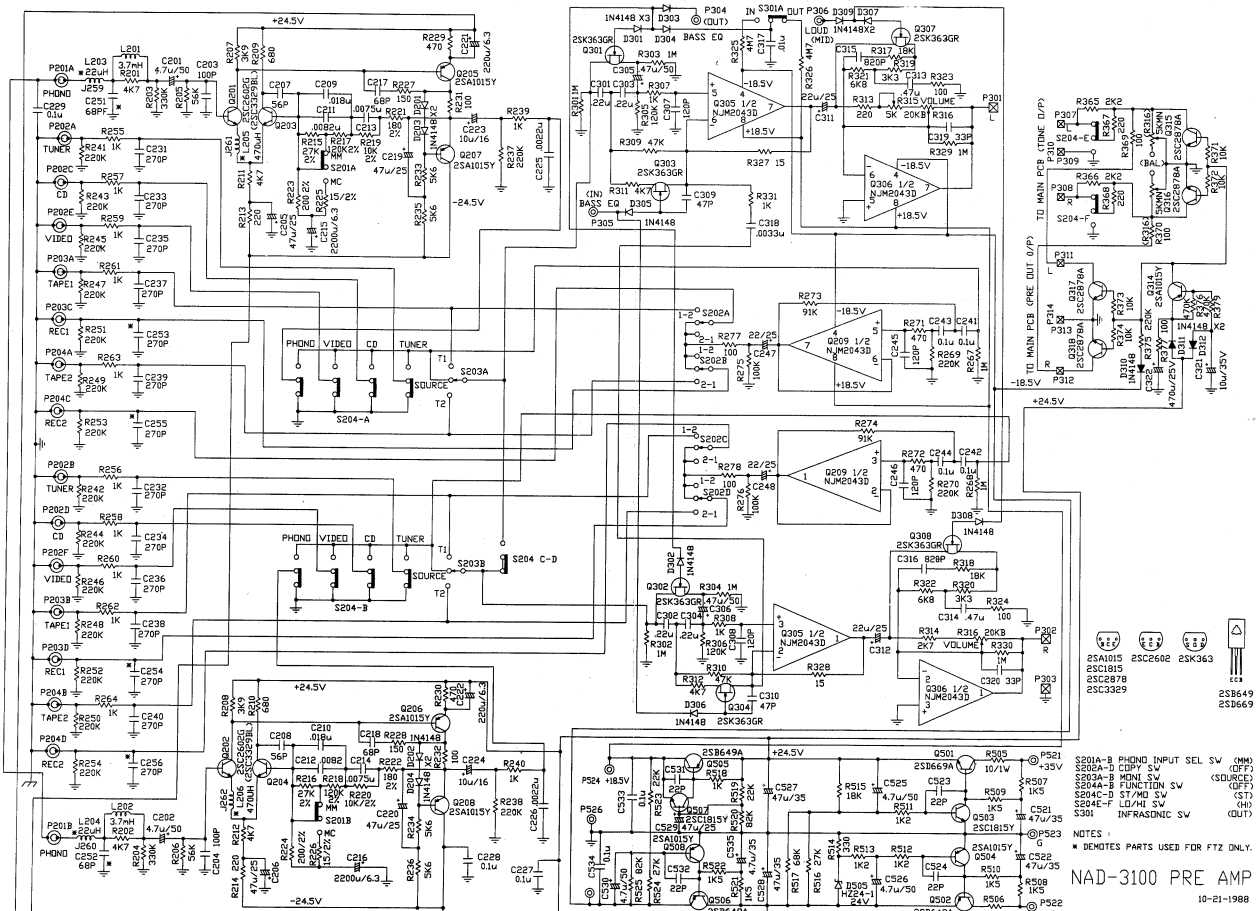
# MAIN AMPLIFIER PCB LAYOUT



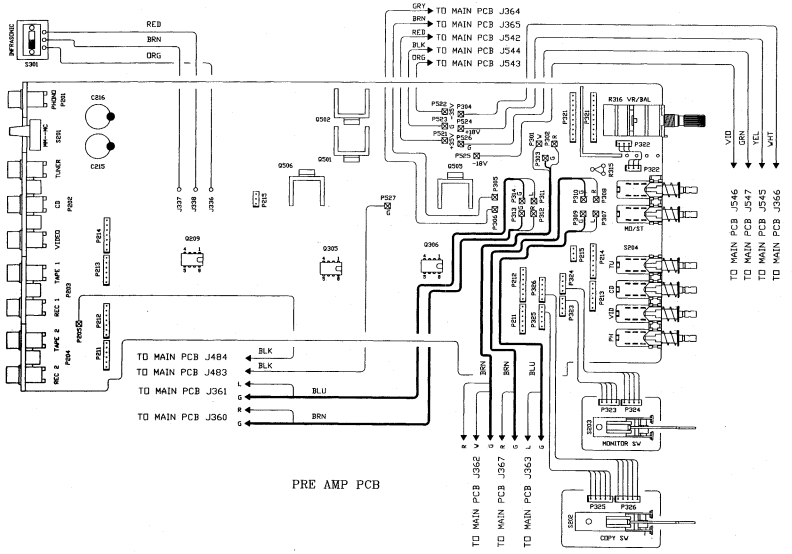
S302 LOUDNESS SWITCH (OFF)
S401 SOFT CLIPPING SWITCH (OFF)
S402 BRIDGING SWITCH (OFF)
S601 SPEAKER & BASS EQ SWITCH (OFF & OUT)
S501 IMPEDANCE SWITCH (8 OHM POSITION)
S502 POWER SWITCH (OFF)
NOTES :
* DEMOTES PARTS USED FOR FTZ ONLY.
NAD-3100 POWER AMP
10-21-1988

# PREAMPLIFIER PCB LAYOUT

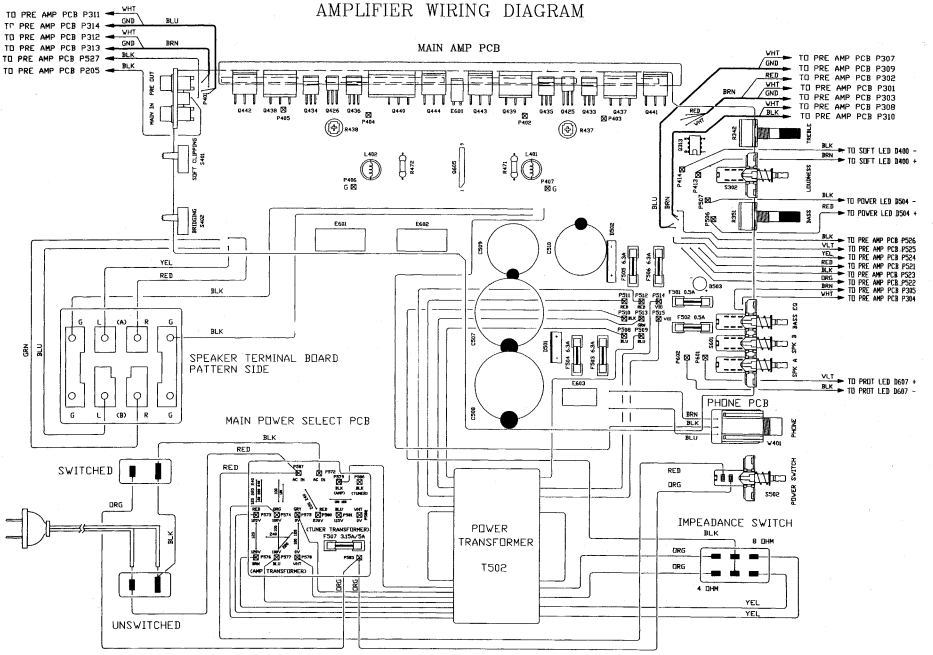



NAD-3100 PRE AMP
10-21-1988
NOTES :
* DENOTES PARTS USED FOR FTZ ONLY.
S201A-B PHONO INPUT SEL SW (MM)
S202A-D COPY SW (OFF)
S203A-B MONI SW (SOURCE)
S204A-B FUNCTION SW (OFF)
S204C-D ST/MO SW (ST)
S204E-F LO/HI SW (HI)
S301 INFRASONIC SW (OUT)
2SA1015 2SC1815 2SC2878 2SC3329
2SC2602
2SK363
2SB649 2SD669
+24.5V
-24.5V
-18.5V
PHONO
TUNER
CD
VIDEO
TAPE1
TAPE2
REC1
REC2
SOURCE
VOLUME
BASS EQ
LOUD
BALANCE
FUNCTION
13
14

# PRE AMP WIRING DIAGRAM




# AMPLIFIER WIRING DIAGRAM


MAIN AMP PCB
TO PRE AMP PCB P311
TO PRE AMP PCB P314
TO PRE AMP PCB P312
TO PRE AMP PCB P313
TO PRE AMP PCB P527
TO PRE AMP PCB P205
TO PRE AMP PCB P307
TO PRE AMP PCB P309
TO PRE AMP PCB P302
TO PRE AMP PCB P301
TO PRE AMP PCB P303
TO PRE AMP PCB P308
TO PRE AMP PCB P310
TO SOFT LED D400 -
TO SOFT LED D400 +
TO POWER LED D504 -
TO POWER LED D504 +
TO PRE AMP PCB P326
TO PRE AMP PCB P325
TO PRE AMP PCB P324
TO PRE AMP PCB P323
TO PRE AMP PCB P322
TO PRE AMP PCB P305
TO PRE AMP PCB P304
TO PROT LED D607 +
TO PROT LED D607 -
SPEAKER TERMINAL BOARD
PATTERN SIDE
MAIN POWER SELECT PCB
PHONE PCB
SWITCHED
UNSWITCHED
POWER
TRANSFORMER
T502
IMPEADANCE SWITCH
8 OHM
4 OHM

| DIFFERENT PARTS LIST (A1 REF.) PARTS NO. | DESCRIPTION | SPECIFICATION | QTY A1 | A | B | B1 | C | C1 | UM |
|---|---|---|---|---|---|---|---|---|---|
| 5090106033 | PACKING ASS'Y | NAD-3100-A1 | 1 | | | | | | PC |
| 5090108040 | PACKING ASS'Y | NAD-3100-A | | 1 | | | | | PC |
| 5090108041 | PACKING ASS'Y | NAD-3100-B | | | 1 | | | | PC |
| 5090108042 | PACKING ASS'Y | NAD-3100-B1 | | | | 1 | | | PC |
| 5090108043 | PACKING ASS'Y | NAD-3100-C | | | | | 1 | | PC |
| 5090108044 | PACKING ASS'Y | NAD-3100-C1 | | | | | | 1 | PC |
| 5090508031 | CHASSIS ASS'Y | NAD-3100-A1 | 1 | | | | | | PC |
| 5090306040 | CHASSIS ASS'Y | NAD-3100-A | | 1 | | | | | PC |
| 5090306041 | CHASSIS ASS'Y | NAD-3100-B | | | 1 | | | | PC |
| 5090306042 | CHASSIS ASS'Y | NAD-3100-B1 | | | | 1 | | | PC |
| 5090306043 | CHASSIS ASS'Y | NAD-3100-C | | | | | 1 | | PC |
| 5090306044 | CHASSIS ASS'Y | NAD-3100-C1 | | | | | | 1 | PC |
| 5090406041 | MAIN PCB ASS'Y | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090406042 | PRE-AMP PCB BLOCK | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090406047 | PCB ASS'Y | NAD-3100-B | | | 1 | 1 | | | PC |
| 5090406048 | PCB ASS'Y | NAD-3100-C | | | | | 1 | | PC |
| 5090406049 | PCB ASS'Y | NAD-3100-C1 | | | | | | 1 | PC |
| 5090408059 | PRE-AMP PCB BLOCK | NAD-3100-B | | | 1 | 1 | 1 | | PC |
| 5090408051 | PRE-AMP PCB BLOCK | NAD-3100-C1 | | | | | | 1 | PC |
| 5090906102 | MAIN PCB BLOCK | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090906103 | SPEAKER JACK PCB BLOCK | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090906104 | EAR PHONE PCB BLOCK | NAD-3100-A1 | 1 | 1 | 1 | 1 | 1 | | PC |
| 5090906105 | POWER TERMINAL PCB BLOCK | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090906108 | PRE PCB BLOCK | NAD-3100-A1 | 1 | 1 | | | | | PC |
| 5090906117 | MAIN PCB BLOCK | NAD-3100-B | | | 1 | 1 | 1 | | PC |
| 5090906118 | MAIN PCB BLOCK | NAD-3100-C1 | | | | | | 1 | PC |
| 5090906119 | SPEAKER JACK PCB BLOCK | NAD-3100-B | | | 1 | 1 | | | PC |
| 5090906120 | SPEAKER JACK PCB BLOCK | NAD-3100-C | | | | | 1 | | PC |
| 5090906121 | POWER TERMINAL PCB BLOCK | NAD-3100-B | | | 1 | 1 | 1 | | PC |
| 5090906122 | PRE PCB BLOCK | NAD-3100-B | | | 1 | 1 | 1 | | PC |
| 5090906123 | PRE PCB BLOCK | NAD-3100-C1 | | | | | | 1 | PC |
| 5090906124 | SPEAKER JACK PCB BLOCK | NAD-3100-C1 | | | | | | 1 | PC |
| 5090906125 | EAR PHONE PCB BLOCK | NAD-3100-C1 | | | | | | 1 | PC |
| S231522001 | CAPACITOR,CERAMIC | TS-PV-C032C DC 50V 2200PF | | | | | | 6 | PC |
| S247068001 | CAPACITOR,CERAMIC | TS-PV-C032C SL DC50V 68PF | | | | | | 2 | PC |
| S247187101 | CAPACITOR,CERAMIC | TS-PV-C032C SL DC50V 270PF | | | | | | 4 | PC |
| 5535203800 | WARRANTY CARD | NAD-3220/T220 | | | | 1 | | | PC |
| 5535203700 | WARRANTY CARD(A1) | NAD-3220/T220 | 1 | | | | | | PC |
| 5535444900 | SPEC. LABEL | 120V UL-1 A | | 3 | | | | | PC |
| 5535444910 | SPEC. LABEL | 120V UL-1 A1 | 3 | | | | | | PC |
| 5535444920 | SPCE. LABLE | 240V BS B | | | 3 | | | | PC |
| 5535444930 | SPEC. LABEL | 240V SA-2 B1 | | | | 3 | | | PC |
| 5535444940 | SPEC. LABEL | 220V CEE-3 C | | | | | 3 | | PC |
| 5535444950 | SPEC. LABEL | 220V CEE-3 C1 | | | | | | 3 | PC |
| 5535447450 | FTZ LABEL | 3109 C1, 0614 108W | | | | | | 1 | PC |
| 5535447500 | SAFETY INSTRUCTION | NAD-USA | 1 | | | | | | PC |
| 5535448400 | LABEL , CAUTION | UL | 2 | | | | | | PC |
| 5541837400 | FLAT PIN | NAD-7100, K-4620 | 1 | | | | | | PC |
| 5554303401 | FUSE 5.2*20 UL/CSA | 125V, 6.3A | 4 | 4 | | | | | PC |
| 5554308500 | FUSE 5.2*20 | T5L 250V 500MA SEMKO | | | 2 | 2 | 2 | 2 | PC |
| 5554308501 | FUSE UL & CSA 5.2*20 | 250V 500MA | 2 | 2 | | | | | PC |
| 5554307300 | FUSE SEMKO 5.2*20 SBT | 250V 3.15A TIME LAG | | | 1 | 1 | 1 | 1 | PC |
| 5554307501 | FUSE UL/CSA 5.2*20 SMT5 | 125V 5A MEDIUM SLOW | 1 | 1 | | | | | PC |
| 5554307600 | FUSE 5.2*20 (TIME LAG) | 250V 6.3A SEMKO | | | 4 | 4 | 4 | 4 | PC |
| 5558206420 | SPEAKER TERMINAL | SO-6249 | 2 | 2 | 2 | 2 | | 2 | PC |
| 5558205430 | SPEAKER TERMINAL | SO-6250 (UL) | | | | | 2 | | PC |
| 5558308320 | AC OUTLET (PLOA%IZED) | S-76518-02401/MJC-030 | 2 | 2 | | | | | PC |
| 5566311400 | AC SOCKET | S-16536401 | | | 1 | 1 | 1 | 1 | PC |
| 5558700131 | AC POWER CORD W/PLUG BLK (VDE) | PL-21 4S/0.15*2C*1.8M | | | | | 1 | 1 | PC |
| 5558711310 | POWER CORD BLK UTSS-2F 0.75MM2 | 2A/0.2MJC*2M (BS) | | | 1 | | | | PC |
| 5558702011 | AC POWER CORD W/PLUG BLK (SAA) | SAA 4Z/0.15*2C*1.8M | | | | 1 | | | PC |
| 5556702130 | AC POWER W/PLUG PL. BLK UL/CSA | SPT-2 #1/0.16*2C*1.8M | 1 | 1 | | | | | PC |
| 5556900340 | 4P PVC PARALLEL WIRE(L=120mm) | UL2817 AWG26# 7/.16 BLK | 4 | 2 | 2 | 2 | 2 | 2 | PC |
| 5556900460 | 5P PVC PARALLEL WIRE(L=160mm) | UL2817 AWG26# 7/.16 BLK | 4 | 2 | 2 | 2 | 2 | 2 | PC |
| 5564401320 | TRAP COIL (L=470uH ±20% ) | SK-1273 | | | | | | 2 | PC |
| 5564401330 | TRAP COIL (L=22uH ±20% ) | SK-1274 | | | | | | 2 | PC |
| 6101006000 | WIRE,TIN COATED SOFT COPPER | 0.6 mm | 10.5 | 10.5 | 10.44 | 10.44 | 10.44 | 10.2 | M |
| 6140071900 | WIRE,PVC DOUBLE-LAYER,BLACK | ZZANG 17/0.16 UL1617 | | | | 0.16 | 0.16 | 0.16 | M |
| 6140071922 | WIRE,PVC DOUBLE-LAYER,RED | ZZANG 17/0.16 UL1617 | | | | 0.54 | 0.54 | 0.54 | M |
| 6140071933 | WIRE,PVC DOUBLE-LAYER,ORN | ZZANG 17/0.16 UL1617 | | | | 0.59 | 0.59 | 0.59 | M |
| 6176580600 | WIRE,PVC (COATING)UL,CSA BLK | 600V 5A 7/0.26 7*10S | 0.84 | 0.84 | 0.6 | 0.6 | 0.6 | 0.6 | M |
| 6176580602 | WIRE,PVC (COATING)UL,CSA RED | 600V 5A 7/0.26 7*10S | 0.67 | 0.67 | | | | | M |
| 6176580603 | WIRE,PVC (COATING)UL,CSA ORN | 600V 5A 7/0.26 7*10S | 0.59 | 0.59 | | | | | M |

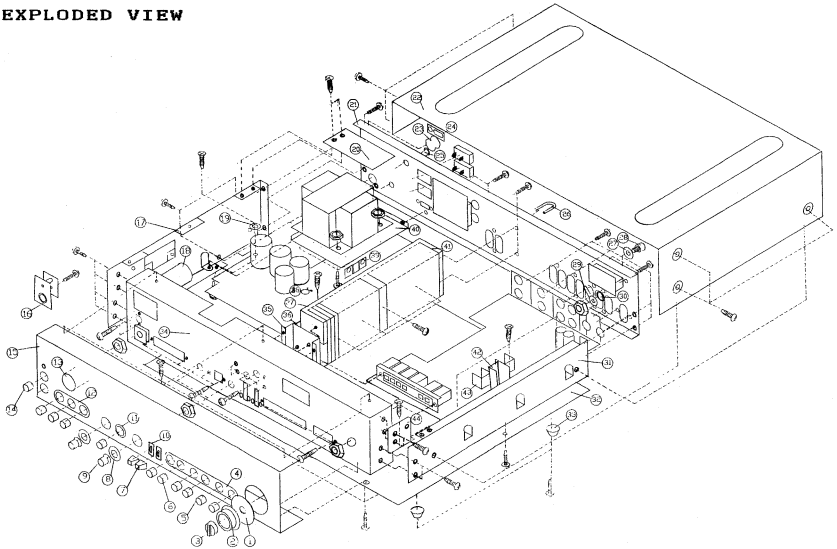
| VERSION | VOLTAGE | COUNTRY |
|---|---|---|
| A | 120 V | Canada. |
| A1 | 120 V | U.S.A.,Taiwen, Saudi Arabia. |
| A2 | 120 V/220 V Wire/With Adaptor | Germany Police. |
| B | 240 V | U.K., South Africa. |
| B1 | 240 V | Australia. |
| C | 220 V | Denmark, France, Finland, Greece, Hongkong, Israel, Thailand, Singapore, Iceland, Italy, New Zealand, Norway, Netherlands, Sweden, Switzerland, Spain. |
| C1 | 220 V | West Germany |

| PARTS NO. | DESCRIPTION | SPECIFICATION | SYMBOL NO. | QTY | UM |
|---|---|---|---|---|---|
| S13031900? | RES.,METAL OXIDE FILM MINI. | 1 W 10 ohm J SL | R505,506 | 2 | pcs |
| S13034?03 | RES.,METAL OXIDE FILM MINI. | 1 W 4.7kohm J SL | R475 | 1 | pcs |
| S13041.3?0 | RES.,METAL OXIDE FILM MINI. | 2 W 12kohm J SL | R467,468,469,470. | 4 | pcs |
| S13042?03 | RES.,METAL OXIDE FILM MINI. | 2 W 2.2ohm J SL | R471,472 | 2 | pcs |
| S13043?10 | RES.,METAL OXIDE FILM MINI. | 2 W 330ohm JSL | R487,488 | 2 | pcs |
| S13046?03 | RES.,METAL OXIDE FILM MINI. | 2 W 6.8kohm JSL | R463,464,465,466. | 4 | pcs |
| S13503?00 | RES.,METAL PLATE CEMENT | 5W 0.22 ohm K | R445,446,447,448 | 4 | pcs |
| S13631?00? | RES.,METAL OXIDE FILM | 1 W 10 ohm JSL | R485,486 | 2 | pcs |
| S13638?20? | RES.,METAL OXIDE FILM | 1 W 8.2kohm JSL | R431,432 | 2 | pcs |
| S14181?20? | RES.,CARBON FILM | 1/4 W 180kohm J B | S219,220 | 2 | pcs |
| S14181?40? | RES.,CARBON FILM | 1/4 W 180Kohm G B | S217,218 | 2 | pcs |
| S14181?60? | RES.,CARBON FILM | 1/4 W 18ohm G B | S223,224 | 2 | pcs |
| S14181?10? | RES.,CARBON FILM | 1/4 W 180ohm G B | S221,222 | 2 | pcs |
| S14182?30? | RES.,CARBON FILM | 1/4 W 2200ohm G B | S213,214 | 2 | pcs |
| S14182?30? | RES.,CARBON FILM | 1/4 W 270ohm G B | S215,216 | 2 | pcs |
| S14211?00? | RES.,CARBON FILM | 1/4 W 22ohm J B | S603,604 | 2 | pcs |
| S14212?40? | RES.,CARBON FILM | 1/4 W 220Kohm J | R365,356,616 | 3 | pcs |
| S14213?30? | RES.,CARBON FILM | 1/4 W 33Kohm J | R605,606,624 | 3 | pcs |
| S14215?30? | RES.,CARBON FILM | 1/6 W 56Kohm J | R619,620,623 | 3 | pcs |
| S14215?40? | RES.,CARBON FILM | 1/6 W 68Kohm J C | R633,634 | 2 | pcs |
| S14243?10? | RES.,CARBON FILM | 1/2 W 1.0ohm J B | R627 | 1 | pcs |
| S14243?20? | RES.,CARBON FILM | 1/2 W 1.2ohm J B | R631 | 1 | pcs |
| S14181?10? | RES.,CARBON FILM | 1/4 W 100ohm J B | R231,232,277,278,323 | 22 | pcs |
| | | | 324,427-430,440,460,462, | | |
| | | | 460-462,473,474,477, | | |
| | | | 478,369,370,277. | | |
| S14281?20? | RES.,CARBON FILM | 1/4 W 1Kohm J B | 229,240,255-264, | 20 | pcs |
| | | | 307,308,331,452-454 | | |
| S14281?30? | RES.,CARBON FILM | 1/4W 10Kohm J B | 518,626. | 7 | pcs |
| S14281?40? | RES.,CARBON FILM | 1/4 W 100Kohm J B | R373-376,403,404,630. | 7 | pcs |
| S14281?60? | RES.,CARBON FILM | 1/4 W 18Kohm J B | R275,276,614 | 3 | pcs |
| S14281?80? | RES.,CARBON FILM | 1/4 W 1Mohm J B | R267,268,301-304. | 6 | pcs |
| S14281?20? | RES.,CARBON FILM | 1/4 W 120ohm J B | R511-513 | 3 | pcs |
| S14281?40? | RES.,CARBON FILM | 1/4 W 150ohm J B | R305,306,611,612. | 4 | pcs |
| S14281?60? | RES.,CARBON FILM | 1/4 W 160ohm J B | R227,228 | 2 | pcs |
| S14281?80? | RES.,CARBON FILM | 1/4 W 1.0Mohm J B | R343-345,507-510,521, | 13 | pcs |
| | | | 522,609,610,501, | | |
| S14281?30? | RES.,CARBON FILM | 1/4 W 180ohm J B | R613. | 1 | pcs |
| S14281?40? | RES.,CARBON FILM | 1/4 W 1.8Kohm J B | R606,606,635,636, | 4 | pcs |
| S14281?30? | RES.,CARBON FILM | 1/4 W 180ohm J B | R617,618,615. | 3 | pcs |
| S14282?00? | RES.,CARBON FILM | 1/4 W 20ohm J B | R341-344 | 4 | pcs |
| S14282?10? | RES.,CARBON FILM | 1/4 W 220ohm JB | R213,214,313,367,368, | 7 | pcs |
| | | | 625,626. | | |
| S14282?20? | RES.,CARBON FILM | 1/4 W 2.2Kohm J B | R366,386,421-424 | 9 | pcs |
| | | | 481,482,483. | | |
| S14282?30? | RES.,CARBON FILM | 1/4 W 22Kohm J B | R510,523 | 2 | pcs |
| S14282?40? | RES.,CARBON FILM | 1/4 W 220Kohm J B | R237,238,241-254,269 | 20 | pcs |
| | | | 270,375,401, | | |
| S14282?30? | RES.,CARBON FILM | 1/4 W 2.7Kohm J B | R376 | 1 | pcs |
| S14282?30? | RES.,CARBON FILM | 1/4 W 270ohm J B | R479,480,616,624. | 4 | pcs |
| S14283?10? | RES.,CARBON FILM | 1/4 W 330ohm J B | R441-444,514. | 4 | pcs |
| S14283?20? | RES.,CARBON FILM | 1/4 W 3.3Kohm J B | R319,320,476. | 3 | pcs |
| S14283?40? | RES.,CARBON FILM | 1/4 W 33Kohm J B | R353,354 | 2 | pcs |
| S14283?10? | RES.,CARBON FILM | 1/4 W 390ohm J B | R483,484 | 2 | pcs |
| S14283?20? | RES.,CARBON FILM | 1/4 W 3.9Kohm J B | R207,208 | 2 | pcs |
| S14284?00? | RES.,CARBON FILM | 1/4 W 47ohm J B | R411,412,415,416. | 4 | pcs |
| S14284?10? | RES.,CARBON FILM | 1/4 W 470ohm J B | R229,231,271,272 | 4 | pcs |
| | | | 456-458 | | |
| S14284?20? | RES.,CARBON FILM | 1/4 W 4.7Kohm J B | R211,218,311,313, | 7 | pcs |
| | | | 407,408,379. | | |
| S14284?30? | RES.,CARBON FILM | 1/4 W 47Kohm J B | R309,310,615. | 3 | pcs |
| S14284?40? | RES.,CARBON FILM | 1/4 W 470Kohm J B | R376 | 1 | pcs |
| S14284?50? | RES.,CARBON FILM | 1/4 W 4.7M J B | R381,382,384,325,326. | 5 | pcs |
| S14285?20? | RES.,CARBON FILM | 1/4 W 5.6Kohm J B | R233-236,625 | 5 | pcs |
| S14285?30? | RES.,CARBON FILM | 1/4 W 560ohm J B | R617,618 | 2 | pcs |
| S14286?10? | RES.,CARBON FILM | 1/4 W 680ohm J B | R209,210. | 2 | pcs |
| S14286?20? | RES.,CARBON FILM | 1/4 W 6.8Kohm J B | R331,332,421 | 3 | pcs |
| S14286?30? | RES.,CARBON FILM | 1/4 W 68Kohm J B | R517,629. | 2 | pcs |
| S14286?10? | RES.,CARBON FILM | 1/4 W 8.2Kohm J B | R417-420,439-442,601 | 15 | pcs |
| | | | 602,628 | | |
| S14288?20? | RES.,CARBON FILM | 1/4 W 8.2Kohm J B | R622 | 1 | pcs |
| S14288?30? | RES.,CARBON FILM | 1/4 W 82Kohm J B | R520,525 | 2 | pcs |
| S14289?30? | RES.,CARBON FILM | 1/4 W 820ohm J B | R273,274. | 2 | pcs |
| S14581?10? | RES.,CARBON FILM | 1/4 W 100ohm J B | R459 | 1 | pcs |
| S14581?20? | RES.,CARBON FILM | 1/4 W 120ohm J B | R451 | 1 | pcs |
| S14581?50? | RES.,CARBON FILM | 1/4 W 1K J U | S329,330 | 2 | pcs |
| S14581?30? | RES.,CARBON FILM | 1/4 W 120ohm J B | R607,608 | 2 | pcs |
| S14581?09? | RES.,CARBON FILM | 1/4 W 15ohm J U | S327,328. | 2 | pcs |
| S14582?40? | RES.,CARBON FILM | 1/4 W 180Kohm J B | R409 | 1 | pcs |
| S14583?90? | RES.,CARBON FILM | 1/4 W 3.3Kohm J B | R345,350 | 2 | pcs |
| S14583?60? | RES.,CARBON FILM | 1/4 W 330Kohm J B | R355,356. | 2 | pcs |
| S14584?00? | RES.,CARBON FILM | 1/4 W 47ohm J B | R409,410,413,414 | 4 | pcs |
| S14584?20? | RES.,CARBON FILM | 1/4 W 4.7Kohm JBU | R201,202. | 2 | pcs |
| S14585?30? | RES.,CARBON FILM | 1/4 W 560ohm J B | R206,205. | 2 | pcs |
| S18274?10? | RES.,VR PC270RVG1AK 1/8W B | 100ohm4?1-?T?470 (SH) | R?438 | 1 | pcs |
| S16240?20? | RES.,VRORV9S0?0?0 | RH0811A50250 (SH 03M) | R315 | 1 | pcs |
| S18900?10? | RES.,VR, L MOTOR | 3K1614?0?06-03M0/03M0X3 | R318 | 1 | pcs |
| S16902?03? | RES.,VR. | PH1631BA234-3?0X3 | R351 | 1 | pcs |
| S18920?0?? | RES.,VR. | PH1631BA3?0-1?0X3Z | R352 | 1 | pcs |
| S21003?80? | CAP.,ELECTROLYTIC | CSLW 50V 10000MFH | C509,510 | 2 | pcs |
| S21003?50? | CAP.,ELECTROLYTIC | CSLW 60V 10000MFH | C507,508 | 2 | pcs |
| S21312?19? | CAP.,ELECTROLYTIC | CEDW 6.3V 2200MFT | C?21,?22, | 2 | pcs |
| S21312?12? | CAP.,ELECTROLYTIC | CEDW 6.3V 1000MFT | C?15,?16 | 2 | pcs |
| S21322?9?. | CAP.,ELECTROLYTIC | CEDW 10V 22MFT ? | C601,602,609 | 3 | pcs |
| S21322?19? | CAP.,ELECTROLYTIC | CEDW 10V 220MFT ? | C417,418 | 2 | pcs |
| S21324?09? | CAP.,ELECTROLYTIC | CEDW 10V 470MFT ? | C607,608, | 2 | pcs |
| S21324?29? | CAP.,ELECTROLYTIC | CEDW 10V 1000MFT | C?23,?24 | 2 | pcs |
| S21331?09? | CAP.,ELECTROLYTIC | CEDW 16V 10MFT ? | C327,328,415,416,447 | 8 | pcs |
| | | | 448,603,604. | | |
| S21334?09? | CAP.,ELECTROLYTIC | CEDW 16V 47MFT ? | C401,402 | 2 | pcs |
| S21342?09? | CAP.,ELECTROLYTIC | CEDW 25V 22MF ? | C347,348,311,312 | 4 | pcs |
| | | | 322,331,332. | | |
| S21344?09? | CAP.,ELECTROLYTIC | CEDW 25V 47MFT ? | C206,208,219,220,?28. | 6 | pcs |
| S21347?19? | CAP.,ELECTROLYTIC | CEDW 25V 470MFT | C332 | 1 | pcs |
| S21351?09? | CAP.,ELECTROLYTIC | CEDW 35V 10MFT | C321 | 1 | pcs |
| S21354?09? | CAP.,ELECTROLYTIC | CEDW 35V 47MFT | C521,522,527,528. | 4 | pcs |
| S21361?09? | CAP.,ELECTROLYTIC | CEDW 50V 1MF ? | C431 | 1 | pcs |
| S21361?29? | CAP.,ELECTROLYTIC | CEDW 50V 1000MFT | C515,514 | 2 | pcs |
| S21364?89? | CAP.,ELECTROLYTIC | CEDW 50V 0.47MFU ? | C305,306,610. | 3 | pcs |

| PARTS NO. | DESCRIPTION | SPECIFICATION | SYMBOL NO. | QTY | UM |
|---|---|---|---|---|---|
| S21364?99? | CAP.,ELECTROLYTIC | CEDW 50V 4.7MF ? | C202,202,525,526,530, | 6 | pcs |
| | | | 531. | | |
| S21372?09? | CAP.,ELECTROLYTIC | CEDW 63V 22MFT ? | C443-446,449 | 5 | pcs |
| S21411?09? | CAP.,ELECTROLYTIC | CEDW 100V 10MFT | C439 | 1 | pcs |
| S21411?09? | CAP.,ELECTROLYTIC | CEDW 100V 10MFT ? | C419-422,440-442 | 7 | pcs |
| S22311?49? | CAP.,ELECTROLYTIC | CEDW 50V 0.1MFT ? | C541-244,421-434, | 2 | pcs |
| S22218?39? | CAP.,FILM,POLYSTYRE | CQ92N 50V 1800OHM? ? | CD59,210 | 2 | pcs |
| S22218?29? | CAP.,FILM,POLYSTYRE | CQ92N 50V 2200PH? ? | CD58,209 | 2 | pcs |
| S22211?24? | CAP.,FILM,POLYSTYRE | CQ92N 50V 0.22MH? | C301,302,303,304. | 4 | pcs |
| S22211?47? | CAP.,FILM,POLYSTYRE | CQ92N 50V 0.27MH? | C?23,?24 | 2 | pcs |
| S22211?47? | CAP.,FILM,POLYSTYRE | CQ92N 50V 0.47MH? | C313,314 | 2 | pcs |
| S22211?63? | CAP.,FILM,POLYSTYRE | CQ92N 50V 5600PH? ? | C?11,?12 | 2 | pcs |
| S22211?29? | CAP.,FILM,POLYSTYRE | CQ92N 50V 7500PH? ? | C213,214 | 2 | pcs |
| S22218?29? | CAP.,FILM,POLYSTYRE | CQ92N 50V 8200PH? ? | C211,212 | 2 | pcs |
| S23010?70? | CAP.,CERAMIC CK45 (SC) | 400V 470PFM | C501 | 1 | pcs |
| S23116?10? | CAP.,CERAMIC CK45 | 50V 560PFM | C403,404 | 2 | pcs |
| S23138?19? | CAP.,CERAMIC CK45 | 50V 850PFM ? | C315,316 | 2 | pcs |
| S23153?39? | CAP.,CERAMIC CK45 | 50V 3300PH ? | C318 | 1 | pcs |
| S23181?39? | CAP.,CERAMIC CK45 | 50V 10000PH ? | C317,333-335, | 4 | pcs |
| S23181?40? | CAP.,CERAMIC CK45 | 50V 0.1MF? | C327,328,437-438,502 | 5 | pcs |
| | | | 533,534 | | |
| S23611?40? | CAP.,SEMICONDUCTIVE | 25V 0.01F K | C606 | 1 | pcs |
| S23611?49? | CAP.,SEMICONDUCTIVE | 25V 0.1UF K T | C229,405-408, | 5 | pcs |
| S24701?09? | CAP.,CERAMIC CC45 | 50V 10PF? ? | C203,204 | 2 | pcs |
| S24702?09? | CAP.,CERAMIC CC45 | 50V 22PF? ? | C523,524,531,532 | 4 | pcs |
| S24703?09? | CAP.,CERAMIC CC45 | 50V 33PF? ? | C319,320,413,414 | 4 | pcs |
| S24704?09? | CAP.,CERAMIC CC45 | 50V 47PF? ? | C309,310 | 2 | pcs |
| S24705?09? | CAP.,CERAMIC CC45 | 50V 68PF? ? | C307,308 | 2 | pcs |
| S24706?09? | CAP.,CERAMIC CC45 | 50V 68PF? ? | C317,218 | 2 | pcs |
| S24711?09? | CAP.,CERAMIC CC45 | 50V 100PH ? | C409-412,423-426 | 8 | pcs |
| S24711?19? | CAP.,CERAMIC CC45 | 50V 120PH ? | C245,246,307,308 | 4 | pcs |
| S24711?19? | CAP.,CERAMIC CC45 | 50V 150PH ? | C529,230 | 2 | pcs |
| S24 ?79?? | CAP.,CERAMIC CC45 | 50V 2700PH ? | C231-240 | 10 | pcs |
| S24714?19? | CAP.,CERAMIC CC45 | 50V 470PH ? | C427-430, | 4 | pcs |
| S27222?30? | CAP.,CERAMIC CC45 | 250V 2200OHM? | C502-505 | 3 | pcs |
| S30A0?0?0? | CAP.,CERAMIC (ELE) | A30A0?0?0? | C503 | 1 | pcs |
| PS SPANGE, 25*11*15mm | | | GF16 | 1 | pcs |
| S5312?1170 | OWNERS MANUAL | NAD-3100 | P180 | 1 | pcs |
| S5353?07?0 | WARRANTY CARD(AI) | NAD-3220/?220 | 1P15 | 1 | pcs |
| S5354468?0 | MODEL LABEL | NAD-3100 | 1P61,1P02,2B01 | 3 | pcs |
| S5354449?0 | SPEC. LABEL | 120V UL-1 AI | 1P13-1P15 | 3 | pcs |
| S5354450?0 | PROTECTION.LABEL | NAD-SERIES | 6C10 | 1 | pcs |
| S5354483?0 | FRONT LABEL | NAD-SERIES | 3S02 | 1 | pcs |
| S5354?43?0 | INSTALLATION | NAD-USA | 1P17 | 1 | pcs |
| S5354484?0 | LIGHTNING LABEL | UL LABEL | 1P21, 1P22 | 2 | pcs |
| S5410107?0 | ELECTRODE | | 6C21 ? 6C2 | 1 | pcs |
| S5413?71?0 | CONTROL KNOB | NAD-?100 | 3F22,3F23 | 2 | pcs |
| S5413?98?0 | LOGO PLATE | NAD-?100 | 3P03,3P04 | 2 | pcs |
| S5413?08?0 | KNOB | NAD-2100 | 3F21 | 1 | pcs |
| S5420501?0 | HINGE (R) | 3H ? 6.3MM | 6P09,6P10 | 2 | pcs |
| S5420?61?0 | SCREW | AV-DI | 6P11, | 1 | pcs |
| S5413?69?0 | KNOB | NAD-?100 | 3C08,3C09 | 2 | pcs |
| S5413?69?0 | KNOB | NAD-?100 | 3C08,3C09 | 2 | pcs |
| S5413?69?0 | KNOB | L=21 | 5C12,5C13 | 2 | pcs |
| S5414?39?0 | SCREW | NAD-?100 | 6C07 | 1 | pcs |
| S5414?14?0 | TERMINAL | NAD-310/?110 | 6N05 | 1 | pcs |
| S5414?13?0 | INSULATOR PLATE | NAD-?100 | 5C14,5C15 | 2 | pcs |
| S5411?13?0 | FUSE CLIP (5.2) | NAD-?100 | 6N31-?42,584,585, | 4 | pcs |
| S5417?33?0 | TERMINAL CONNECTOR | NAD-?100 | 5N01,5N04 | 2 | pcs |
| S5417?34?0 | FLAT PIN 1.?1-1.?49.4 | NAD-?100/310C | 5N72-5?9,583,587 | 10 | pcs |
| S5417?61?0 | BINDING POST(R) | NAD-?100 | 6N-?-4 & 5-? | 2 | pcs |
| S5417?46?0 | BASE,VFD | K-0453 | 6P14 | 1 | pcs |
| S5417?18?0 | PLATE,SELECTION LOCK (PVC) | NAD-310/?110 | 6N01,6N07 | 2 | pcs |
| S5417?28?0 | PVC TUBE (BLK) | 3*30cm(+65MM | 3S01 | 1 | pcs |
| S5417?29?0 | SILICON WAX GLASS TUBE (WHT) | 3*30cm(+65MM, 214+12g | 3S01 | 0.1 | M |
| S5417?29?0 | SILICON WAX GLASS TUBE (WHT) | 6VDE-UL DIA=8 m/m | 3644 | 0.055 | M |
| S5417?50?0 | PCB SUPPORT | SCB-15 | 6N04-6N06 | 3 | pcs |
| S5417?02?0 | FOOT | NAD-?100 | 6C03-6C06 | 4 | pcs |
| S5413?81?0 | MAINAMP 109.5*30 9+V-0 DVEDT | NAD-?100 | 5N02 | 1 | pcs |
| S5413?79?0 | PREAMP PCB 329.*160mm 9+V-0 | NAD-3100 | 3S20 | 1 | pcs |
| S5414?43?0 | FUSE 5.2*20 UL/CSA | 250V 6.3A | 6N32 | 1 | pcs |
| S5414?63?0 | FUSE UL & CSA 5.2*20 | 250V 500mA | 6N51,5?2, | 2 | pcs |
| S5414?73?0 | FUSE UL & CSA 5.2*20 SP?S | 125V 3A MEDIUM SLOW | 6N51,5?2 | 2 | pcs |
| S5443416?0 | SLIDE SWITCH | SSSS?02?N1-?N1-?T | 5?01 | 1 | pcs |
| S5443419?0 | SLIDE SWITCH | SSS?2?-12 | 5?01,401,402 | 3 | pcs |
| S5444?24?0 | SLIDE SWITCH | SSN?2?-09 | 5?01 | 1 | pcs |
| S5443425?0 | TVC SWITCH (150V/40A) | SSC?3?A | 5?01,502 | 2 | pcs |
| S5444?44?0 | 1P PUSH SWITCH | SPUF?1A?1-?5 | 5?02 | 1 | pcs |
| S5444?49?0 | 2P PUSH SWITCH | SPA?2?2?01 | 5?02 | 1 | pcs |
| S5444?54?0 | 4P PUSH SWITCH | SLA?54?4D1-?? | 5?02 | 1 | pcs |
| S5444?60?0 | ROTARY SWITCH | TP110L0?N1 | 5?00 | 1 | pcs |
| S5444?63?0 | 2P PUSH SWITCH(CSA/SEMKO) | SSA?2?2?0A | 5?02 | 1 | pcs |
| S5444?67?0 | 6P PUSH SWITCH | SPA?6?1D?0?-?? | 5?04 | 1 | pcs |
| S5444?70?0 | 4P PUSH SWITCH | SLA?5?2?N01-?? | 5?04 | 1 | pcs |
| S5444?80?0 | RELAY | VS-2496-?V3 | 5?01,502 | 2 | pcs |
| S5445?00?0 | RELAY | V2-24W | 5?03 | 1 | pcs |
| S5562?0?10 | LUG | 4.1MM | 5?07 | 1 | pcs |
| S5562?1?00 | SQUARE PIN | 1.?*1.?*6 | P?28,?30-?31-?4?,403-407 | 41 | pcs |
| | | | 413,414,506-515, | | |
| S5562?03?0 | SCREW | M3*10 | 5?1-5?7,601,602 | 7 | pcs |
| S5562?04?0 | 4P SIGNAL JACK | 12-2?02 | ?003-?04,401 | 1 | pcs |
| S5562?47?0 | 2P SIGNAL JACK | 12-2?23-1 | 5?12 | 1 | pcs |
| S5562?64?0 | SPEAKER TERMINAL | SG-?249 | P411,412 | 2 | pcs |
| S5562?68?0 | 2-PRONG | 2-PRONG | P?01 | 1 | pcs |
| S5563?83?0 | AC OUTLET (PCLARIZED) | S-?5515-?2?01/SJC-?30A | P501,502 | 2 | pcs |
| S5563?1?30 | 6.4 JACK | 2N-6?13-?2-?30 | 5?01 | 2 | pcs |
| S5567?0?30 | AC POWER W/PLUG | PL.BLK UL/CSA | SPT-2 #1/0.1P*20FT.BK | 2?00 | pcs |
| S5568?0?10 | 2P PVC PARALLEL WIRE | UL2?77 AWG?6# ?/.16 BLK | UL2?77 AWG?6# ?/.16 BLK | P522 | pcs |
| S5569?0?50 | 3P PVC PARALLEL WIRE | L=220mm | UL2?77 AWG?6# ?/.16 BLK | P215 | pcs |
| S5569?0?40 | 3P PVC PARALLEL WIRE | L=125mm | UL2?77 AWG?6# ?/.16 BLK | P?23,?24 | pcs |
| S5569?0?60 | 5P PVC PARALLEL WIRE | L=160mm | UL2?77 AWG?6# ?/.16 BLK | P?25,?26 | pcs |
| S5569?0?60 | 6P PVC PARALLEL WIRE | L=?7?mm | UL2?77 AWG?6# ?/.16 BLK | P?11 | pcs |
| S5569?0?70 | 6P PVC PARALLEL WIRE | L=300mm | UL2?77 AWG?6# ?/.16 BLK | P?12 | pcs |
| S5569?0?30 | 7P PVC PARALLEL WIRE | L=270mm | UL2?77 AWG?6# ?/.16 BLK | P?13 | pcs |
| S5569?0?60 | 7P PVC PARALLEL WIRE | L=320mm | UL2?77 AWG?6# ?/.16 BLK | P?14 | pcs |
| S5569?0?30 | 8P PVC PARALLEL WIRE | L=?7?mm | UL2?77 AWG?6# ?/.16 BLK | P?31 | pcs |
| S5611?17?0 | POWER TRANSFORMER (EI-96) | 100/120/240V 50/60HZ | ?502 | 1 | pcs |
| S5820?0?60 | SPRING COIL | 2S870?6?4 | L401,402 | 2 | pcs |
| S5544?01?0 | TRAP COIL (L=3.?TH ±30% 100K) | TWS-384-407(3.?TH ±30%) | L201,202 | 2 | pcs |
| S5101?0?60 | WIRE,TIN COATED SOFT COPPER | 0.6dm | 2?00-2?18,221-231, | 10.8 | M |
| | | | 289-?62,301-?35,339- | | |
| | | | 342,344-?54,402-406 | | |
| | | | 504-510,520-527,693- | | |

| PARTS NO. | DESCRIPTION | SPECIFICATION | SYMBOL NO. | QTY UM |
|---|---|---|---|---|
| | | | 596,601-607,609; | |
| 6130003500 | WIRE,PVC BLACK | 24AWG 7/0.2 ATC UL1007 | J270,343,472,475, 482,503,515,544, 583,622,649 | 2.92 M |
| 6130003511 | WIRE,PVC BROWN | 24AWG 7/0.2 ATC UL1007 | J337,365,474,491 | 1.24 M |
| 6130003522 | WIRE,PVC RED | 24AWG 7/0.2 ATC UL1007 | J338,542 | 0.98 M |
| 6130003533 | WIRE,PVC ORANGE | 24AWG 7/0.2 ATC UL1007 | J336,543 | 0.98 M |
| 6130003544 | WIRE,PVC YELLOW | 24AWG 7/0.2 ATC UL1007 | J545. | 0.41 M |
| 6130003555 | WIRE,PVC GREEN | 24AWG 7/0.2 ATC UL1007 | J547 | 0.4 M |
| 6130003566 | WIRE,PVC BLUE | 24AWG 7/0.2 ATC UL1007 | J475 | 0.12 M |
| 6130003577 | WIRE,PVC PURPLE | 24AWG 7/0.2 ATC UL1007 | J546,621 | 0.89 M |
| 6130003588 | WIRE,PVC GRAY | 24AWG 7/0.2 ATC UL1007 | J364,610 | 0.43 M |
| 6130003599 | WIRE,PVC WHITE | 24AWG 7/0.2 ATC UL1007 | J368 | 0.43 M |
| 6130005400 | WIRE,PVC BLUE | 20AWG 7/0.32 UL1007 | J481,482 | 0.75 M |
| 6130005422 | WIRE,PVC RED | 20AWG 7/0.32 UL1007 | J478 | 0.155 M |
| 6130005444 | WIRE,PVC YELLOW | 20AWG 7/0.32 UL1007 | J477 | 0.135 M |
| 6130005454 | WIRE,PVC GREEN/YELLOW | 20AWG 7/0.32 UL1007 | J480 | 0.145 M |
| 6130005466 | WIRE,PVC BLUE | 20AWG 7/0.32 UL1007 | J479 | 0.125 M |
| 6173312801 | WIRE,SHIELD UL-1533 | SRPVC 28# 7/0.12 | J360,367 | 0.76 M |
| 6173312806 | WIRE,SHIELD UL-1533 | SRPVC 28# 7/0.12 | J361,363,471 | 1.1 M |
| 6175506600 | WIRE,PVC (COATING)UL CSA BLK | 600V 5A 7/0.26 T=105 | J484,555,557,559 | 0.84 M |
| 6175506666 | WIRE,STRANDED 1015 TEN RED | 600V 5A 7/0.26 T=105 | J554,556,560 | 0.07 M |
| 6175506909 | WIRE,STRANDED 1015 TEN ORN | 600V 5A 7/0.26 T=105 | J558,560 | 0.59 M |
| 6177341700 | WIRE,STRANDED 1007 TR-64 BLK | PVC 300V 22# 17/0.16 | J533,536 | 0.345 M |
| 6177341701 | WIRE,STRANDED 1007 TR-64 BRN | PVC 300V 22# 17/0.16 | J538,540 | 0.415 M |
| 6177341702 | WIRE,STRANDED 1007 TR-64 RED | PVC 300V 22# 17/0.16 | J531,534 | 0.355 M |
| 6177341703 | WIRE,STRANDED 1007 TR-64 ORN | PVC 300V 22# 17/0.16 | J532,535 | 0.355 M |
| 6177341704 | WIRE,STRANDED 1007 TR-64 YEL | PVC 300V 22# 17/0.16 | J541 | 0.07 M |
| 6177341708 | WIRE,STRANDED 1007 TR-64 GRY | PVC 300V 22# 17/0.16 | J537,539 | 0.445 M |
| 6179302801 | WIRE,TWIN SHIELD UL-2547 BRN | SRPVC 300V 28# 7/0.12 | J362 | 0.13 M |
| 6179302805 | WIRE,TWIN SHIELD UL-2547 GRY | SRPVC 300V 28# 7/0.12 | J473 | 0.18 M |
| 6611007200 | DIODE,RECTIFIER MOT | 1N4002 100V 1A G | D603 | 1 pcs |
| 6611007230 | DIODE,RECTIFIER TAPING | 1N4002 100V 1A | D604-606 | 3 pcs |
| 6611009702 | DI SEC W10M GIT | 100V 1.5A BRIDGE | D503 | 1 pcs |
| 6611030700 | DI SEC KBL04 GIT | 400V 4A BRIDGE | D501 | 1 pcs |
| 6611030800 | DI SEC KBU8G GIT | 200V 8A BRIDGE | D502 | 1 pcs |
| 6611031060 | DI SEC GF5G3B SVG | 100V 3A SWITCHING T=52NS | D608-632 | 4 pcs |
| 6611031200 | DI SEC SRM3G3B GIT | 1300V 6A | D633-636 | 4 pcs |
| 6613000300 | DIODE,SWITCHING TAPING 52 | 1N4148 | D201-204,301-312,401-424,609-624,637-640 | 42 pcs |
| | | | 601,602 | |
| 6613007131 | DI SHI 1SS81 HIT | 200V 1A TAPING 52MM | D435-438 | 4 pcs |
| 6615005734 | DI ZEN 1Z-5.6B-M UNI | 5.4-6.8V 0.5W T= 26MM | D405-408, | 4 pcs |
| 6615007343 | DI ZEN MZ-74A-3 HIT | 6.65-6.8V T=52MM | D441-444 | 4 pcs |
| 6615036101 | DI ZEN HZ24-1 HIT | 22.9-24V | D505 | 1 pcs |
| 6618009100 | LED,LAMP | 2*5MM RED DIFFUSED | D607 | 1 pcs |
| 6618036900 | LED,LAMP | 2*5MM YELLOW DIFFUSED | D650 | 1 pcs |
| 6618017300 | DI LED EL103D ELT | TOMER 3MM DIA GRN | D508 | 1 pcs |
| 6621015302 | TRANSISTOR,NPN HF TSB | 2SC1815-Y | Q427,428,507, | 3 pcs |
| 6621015332 | TR. NPN HF 2SC1815-YTPE2 TSB | TAPING 26MM | Q407,408,419 | 6 pcs |
| | | | Q420,454,503 | |
| 6621016701 | TR. NPN HF 2SC2240-GR TSB | TOSHIBA, LOW NOISE | Q411,412,415,416,451 | 8 pcs |
| | | | 452,501,502 | |
| 6621018700 | TR. NPN HF 2SC2878-A TSB | TOSHIBA, LOW NOISE, 0.5W | Q315-318 | 4 pcs |
| 6621031200 | TR NPN 2SC3281-GN/ACC TSB | VCEO=200V IC=15A PC=150W | Q439,440 | 2 pcs |
| 6621034330 | TR NPN 2SC5200G HIT | NP=1.8DB PC=0.5W TAPING | Q201-204 | 4 pcs |
| 6621034430 | TR NPN HF SVG | 2SC3467K VCEO=100-200 T | Q421,424,431,432 | 4 pcs |
| 6621034500 | TR NPN 2SC3058G SVG | VCEO=120V PC=0.2W | Q403,404 | 2 pcs |
| 6621034600 | TR PNP 2SC3422Y TSB | VCEO=150V PC=1.2W HFE=1 | Q433,436 | 2 pcs |
| 6621034900 | TR NPN HF 2SC1815GR SVG | 80V 12A NI:ES-20MA B:C | Q441,442 | 2 pcs |
| 6621035302 | TR NPNHF 2SC3144E STO | 160V 1.5A NI:IB-313A B:N | Q435,436 | 2 pcs |
| 6622012902 | TR NPN LF 2SD669AC W/ACC HIT | VCEO=160V PC=1W TO126 | Q501 | 1 pcs |
| 6622013030 | TR NPN 2SD1207T TAPING SVG | VCEO=-50V IC=-2A PC=1W | Q445,446 | 2 pcs |
| 6623002050 | TR. PNP HF 2SA1015-YTPE2 TSB | TAPING 26MM | Q205-208,314,405,406 417,418,453,504,508 606,607 | 14 pcs |
| 6623005900 | TRANSISTOR,PNP HF | 2SA970-GR | Q409,410,413,414,449 450,603,604 | 8 pcs |
| 6623011200 | TR PNP 2SA1302-O W/ACC TSB | VCEO=-200V IC=-15A 150W | Q417,438 | 2 pcs |
| 6623011300 | TR PNP 2SA1213G SVG | VECO=-120V PC=0.2W | Q401,402 | 2 pcs |
| 6623011530 | TR PNP HF ENG | 2SA1370R HFE=100-200T | Q431,422,429,430 | 4 pcs |
| 6623011600 | TR PNP 2SA1011R SVG | -160V -1.5A NI:IB-313A B:N | Q433,434 | 2 pcs |
| 6624006901 | TR PNP 2SB649A-C HIT | VCEO=-160V PC=1W TO126 | Q202,205,206 | 3 pcs |
| 6624010630 | TR PNP 2SB892T TAPING SVG | VCEO=-50V IC=-2A PC=1W | Q447,448 | 2 pcs |
| 6624010900 | TR PNP 2SB892LS SVG | -80V -12A NI:S-20MA B:C | Q443,444 | 2 pcs |
| 6625003730 | TR FET 2SK363GR TSB | VCEO=-60V 0.4W TAPING | Q301-304,307,308 | 6 pcs |
| 6644002800 | IC TA-7317P TSB | PROTECTION CKT | Q606 | 1 pcs |
| 6644066600 | IC LIN NJM2043D JRC | LIN FME AMP *2 DIP 8 | Q209,305,306,313 | 4 pcs |
| 6707020300 | INSULATION TUBING PVC UL CSA | 600V T=105 AWG9 BLK 2.9 | J640-648 | 0.28 M |
| 7000305022 | SCREW BTBM M3*10 S-ZN-CC | M3*10 S-AN-CC | T314-7317 | 4 pcs |
| 7000311022 | SCREW ISO PFW M4*10 S-ZN-CC | M4*10 S-ZN-CC | T707-7710 | 4 pcs |
| 7001230216 | SCREW | C PAN M2.5*4 MS PC | T831,T832 | 2 pcs |
| 7001170812 | SCREW ISO PF M3*6 S-ZN-CC | C PAN M3*6 MS ZN-CC | T701 -T712 | 12 pcs |
| 7001170616 | SCREW ISO PF M3*6 S-PC | C PAN M3*6 MS PC | T829,T830 | 2 pcs |
| 7001171412 | SCREW ISO PF M3*10 S-ZN-CC | C PAN M3*10 MS ZN-CC | T530-T533 | 4 pcs |
| 7003161452 | SCREW BPB M3*10 S-ZN-CC | C PAN 3010 TS ZN-CC | T518-T521 | 4 pcs |
| 7003160852 | SCREW BRS M3*6 S-ZN-CC | C RUD 3006 TS ZN-CC | T715-T724,TL01-TL09 | 19 pcs |
| | | | T801-T809,T804-T813, | |
| 7003161152 | SCREW BPB M3*8 S-ZN-CC | C PAN 3008 TS ZN-CC | T901-T907 | 7 pcs |
| 7003161156 | SCREW BSN M3*8 S-PC | C RUD 3008 TS BC | T802-T828,T835,TL05, | 32 pcs |
| | | | T820-T823 | |
| 7003161452 | SCREW BRD M3*10 S-ZN-CC | C RUD 3010 TS ZN-CC | T522-T529 | 8 pcs |
| 7003161652 | SCREW BSN M3*12 S-ZN-CC | C RUD 3012 TS ZN-CC | T834,T835 | 2 pcs |
| 7076210012 | NUT ISO63.5(2.0H) S-ZN-CC | M3.5(2.0H) S-ZN-CC | T836 | 1 pcs |
| 7076280012 | NUT NHS NHS#3.2H SZN-CC | M#3.2H S-ZN-CC | T715-T718 | 4 pcs |
| 7096210006 | WASHER M6*0.5 S-PC | 3.7 * 9 * 0.5 | T833 | 1 pcs |
| 7096250002 | WASHER M4*0.5 S-ZN-CC | 4.3*9.0*0.8 | T719-T722 | 4 pcs |
| 7098250002 | SPRING WASHER SW4 S-ZN-CC | SW 4 ZN-CC | T711-T714 | 4 pcs |
| 7101200002 | WASHER,TOOTH LOCK-EXT #2.6 | #2.6 S-ZN-CC | T801 | 1 pcs |
| 7195000003 | SCREW ISO PFW ZN-PC (BLK) | M#6 (10#3.5#) L) | T701-T706 | 6 pcs |
| 9510630105 | RS CARTON NAD-3100 | K 150#(36*45)C W3681.0 | 1PCT | 1 pcs |
| 9510685255 | SHEET NAD-7100 | 240*120 BS14.0 | 1P19,1P20 | 2 pcs |
| 9510686355 | RS CARTON(2 SETS) NAD-3100 | K 440#(56*47)S DB318.0 | 1P08 | 0.5 pcs |
| 9520680155 | EPE PAD-L NAD-7100 | 445* 178* 106 EQ2.018 | 1P03 | 1 pcs |
| 9520680255 | EPE PAD-R NAD-7100 | 445* 178* 106 EQ2.018 | 1P04 | 1 pcs |
| 9520685155 | EPE BLOCK NAD-7100 | 46* 250* 53 EQ2.018 | 1P23 | 1 pcs |
| 9530520155 | PRINT PE BAG | 0.04* 600* 525 | 1P05 | 1 pcs |
| 9530680155 | EPE BAG NAD-7100 | 1* 454 *240* 105 | 1P11 | 1 pcs |
| 9564100400 | PE BAG | 0.04* 250* 100 | 1P12 | 1 pcs |
| 9564130900 | PE BAG | 0.04* 325* 225 | 1P10 | 1 pcs |

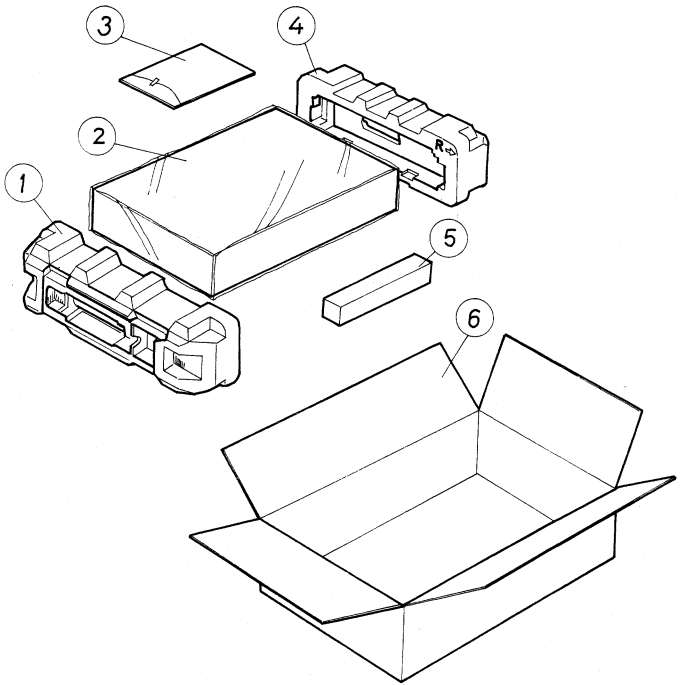
## EXPLODED VIEW



NAD-3100 EXPLODED PARTS LIST :

| ITEM | PARTS NO. | PARTS NAME | Q'TY |
|---|---|---|---|
| 1 | 5542006130 | HEMELON(L) | 1 |
| 2 | 5541540000 | VOL. KNOB | 1 |
| | 5542228400 | KNOB HOLDER, VOL. | 1 |
| 3 | 5541539900 | BAL. KNOB | 1 |
| 4 | 5542227000 | FUNCTION, BEZEL | 1 |
| 5 | 5541537710 | PUSH BUTTON(W) | 4 |
| 6 | 5541537700 | PUSH BUTTON(B) | 6 |
| 7 | 5541537800 | TOGGLE CAP | 2 |
| 8 | 5542006100 | HEMELON (S) | 2 |
| 9 | 5541537510 | CONTROL, KNOB | 2 |
| 10 | 5542225200 | BEZEL, COPY | 2 |
| 11 | 5542225000 | BEZEL, LOUDNESS | 1 |
| 12 | 5542225100 | BEZEL, SPEAKER | 1 |
| 13 | 5535448300 | LABEL, FRONT | 1 |
| 14 | 5541539000 | POWER, KNOB | 1 |
| 15 | 5541307400 | PANEL, FRONT | 1 |
| 16 | 5542226100 | BEZEL, POWER | 1 |
| 17 | 5547131600 | LEFT PLATE | 1 |
| 18 | 5547528600 | TUBE | 1 |
| 19 | 5547504600 | VFS | 1 |
| 20 | 5545403700 | SHIELD COVER | 1 |
| 21 | 5547133600 | BACK PLATE, 120V | 1 |
| | (5547133610) | OR 240V | 1 |
| | (5547133620) | OR 220V | 1 |
| 22 | 5541002300 | TOP COVER | 1 |
| 23 | 5547501200 | POWER CORD | 1 |
| 24 | 5547528400 | PLATE,SWITCH LOCK (PVC) | 2 |
| 25 | 5547530400 | HOLDER-PCB | 3 |
| 26 | 5547033600 | TERMINAL CONNECTOR | 2 |
| 27 | 7101200352 | LOCK WASHER, TOOTH | 1 |
| 28 | 5546121400 | TERMINAL | 1 |
| 29 | 5556200810 | LUG | 1 |
| 30 | 7096210006 | WASHER | 1 |
| 31 | 5547131700 | RIGHT PLATE | 1 |
| 32 | 5547131800 | CHASSIS | 1 |
| 33 | 5547802120 | FOOT | 4 |
| 34 | 5547133700 | FRONT BRACKET | 1 |
| 35 | 5547034110 | BRACKET,H.S. | 1 |
| 36 | 5545307700 | TRANSISTOR HOLDER | 1 |
| 37 | 5545307810 | HEAT SINK (B) | 1 |
| 38 | 5546323400 | RING, TRANS. | 2 |
| 39 | 5547034000 | THERMAL PROTECTOR HOLDE | 1 |
| 40 | 5547131100 | TRS. PLATE | 1 |
| 41 | 5545307800 | HEAT SINK (A) | 1 |
| 42 | 5545306900 | HEAT SINK (L) | 2 |
| 43 | 5545306910 | HEAT SINK (S) | 2 |
| 44 | 5547033800 | RIGHT BRACKET PLATE | 1 |

## PACKING DIAGRAM




PACKING LIST FOR NAD-3100/NAD-2100

| ITEM | PARTS NO. | NAME | QTY |
|---|---|---|---|
| 1 | 9520680155 | POLYLON L. | 1 |
| 2 | 9530680155 | EPE BAG | 1 |
| 3 | 5535122011 | OWNERS MANUAL | 1 |
| 4 | 9520680255 | POLYLON R. | 1 |
| 5 | 9520685155 | POLYLON BAR | 1 |
| 6 | 9510680155 | CARTON | 1 |

NOTES:

# SERVICE MANUAL

# 3100
## INTEGRATED AMPLIFIER

NAD ELECTRONICS
BOSTON/LONDON

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